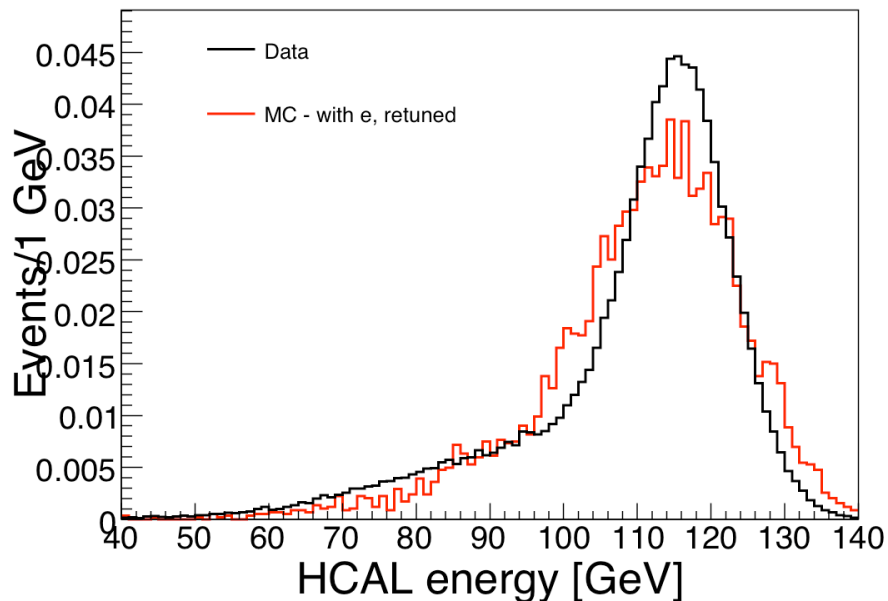
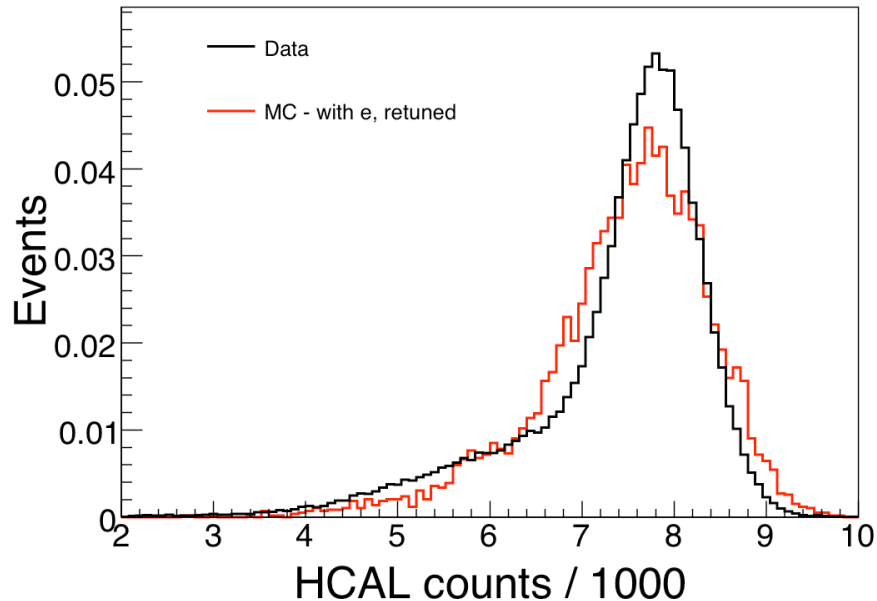
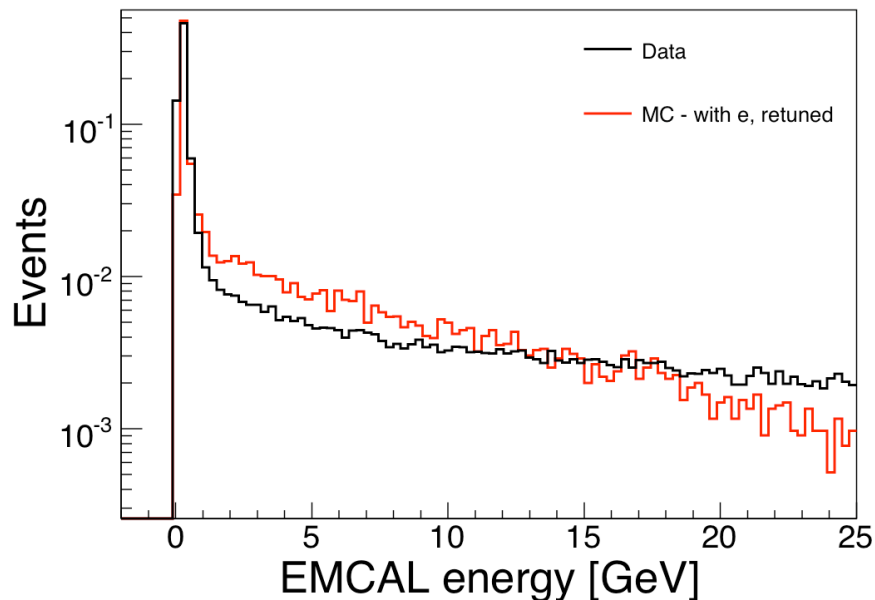
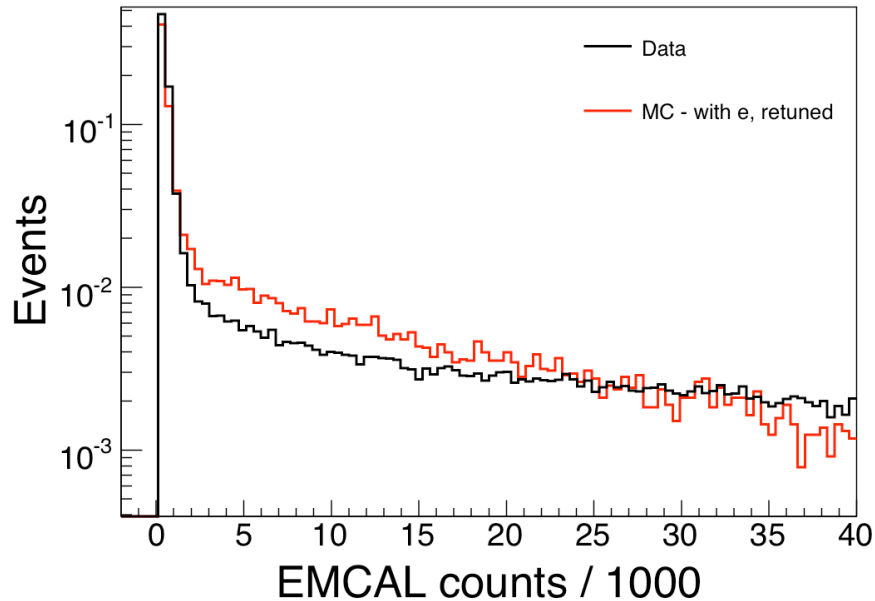


HCal Response



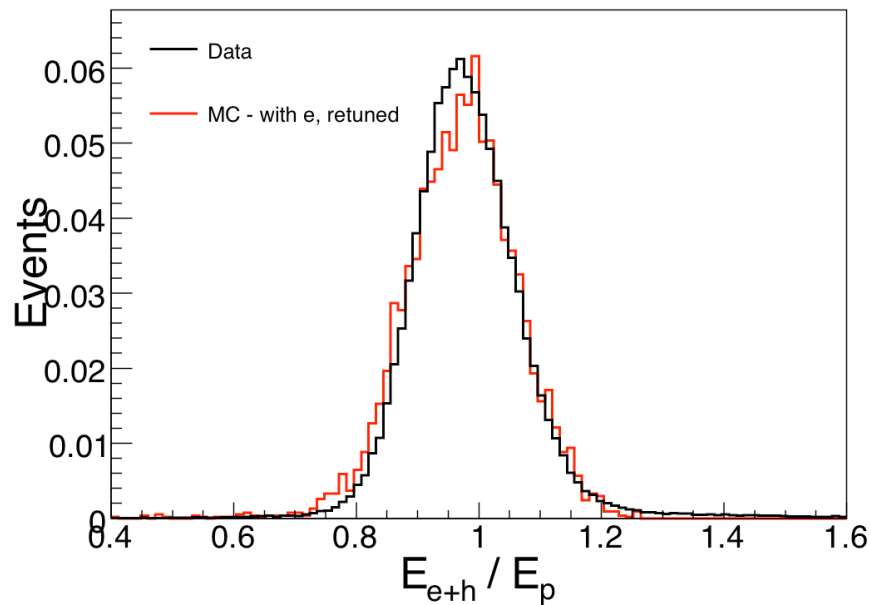
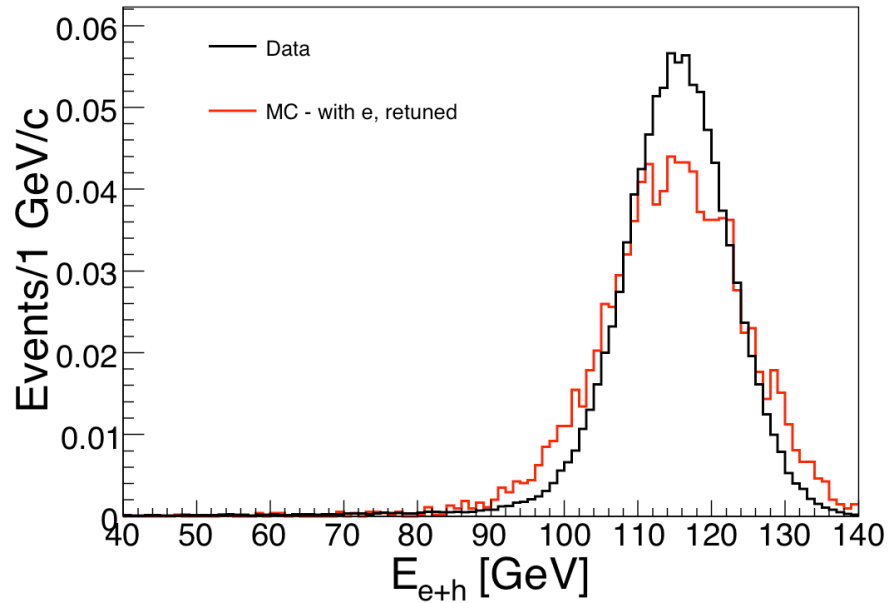
- 120 GeV protons on C
- MC: 10 subruns from Run 15326
 - new cutele, cutgam; *does not* have latest cuthad
- beam triggers for data
- protons identified by RICH
- MC: $108 < p < 130$ GeV
- single track within Hcal
- With new cutele/cutgam, the HCal response increased by $\sim 20\%$. I have accordingly re-tuned HCal Digitizer.
- Top: HCal raw ADC
- Bot: HCal Energy
- HCal agrees better now (before: MC was lower by $\sim 10\%$)

EMCal Response



- 120 GeV protons on C
 - MC: 10 subruns from Run 15326
 - new cutele, cutgam; *does not* have latest cuthad
 - beam triggers for data
 - protons identified by RICH
 - MC: $108 < p < 130$ GeV
-
- Top: EMCAL raw ADC
 - Bot: EMCAL Energy
-
- The new cutele/cutgam has improved the high end tail.

EM+H Response



- Top: Total Cal Energy for protons
- Bot: $\frac{E_{e+h}}{E_p}$
- Earlier, MC was lower by $\sim 10\%$

MC Processing

- Release R09.05.04 tagged -- new cutele,cutgam,cuthad
- e907mc underway on the grid.
 - Takes ~ x3 longer [~5.5hrs/subrun now vs. ~2hrs/subrun before]
 - Geant output filesize is ~ 50% larger [~2.2GB/subrun now vs. ~1.4GB before]
- 1448746083 Mar 30 23:31 mippmc20014498.000029.root
 - 1463547416 Mar 31 01:20 mippmc20014498.000030.root
 - 1469391292 Mar 31 03:10 mippmc20014498.000031.root

} p4d

 - 2186043305 May 5 02:21 mippmc20014498.000037.root
 - 2223987116 May 5 07:41 mippmc20014498.000038.root
 - 2220641984 May 5 13:02 mippmc20014498.000039.root

} p4d3
- Digitized+Reconstructed DST output is ~x2 larger.
 - pass4d2/14/4/mippHist20014498.29.mcdigireco.root 202M
 - pass4d2/14/4/mippHist20014498.30.mcdigireco.root 204M

} p4d

 - pass4d3/14/4/mippHist20014498.37.mcdigireco.root 463M
 - pass4d3/14/4/mippHist20014498.38.mcdigireco.root 473M

} p4d3